



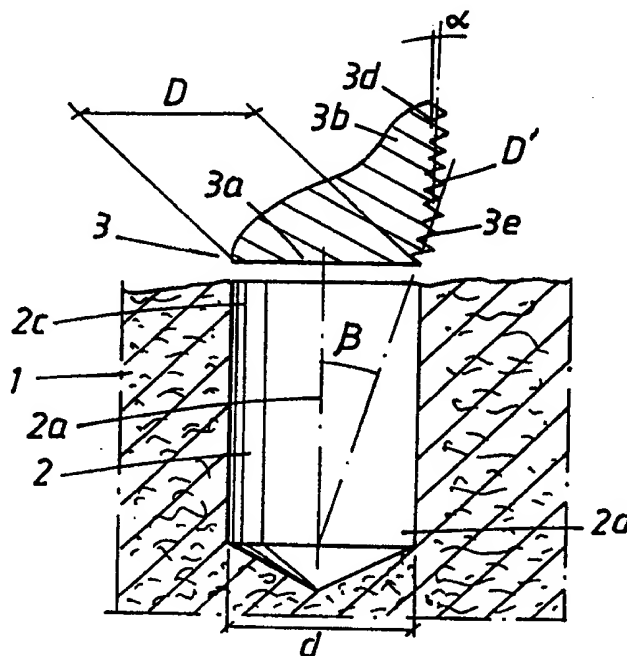
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(54) Title: ARRANGEMENT FOR OBTAINING RELIABLE ANCHORING OF A THREADED IMPLANT IN BONE

## (57) Abstract

In an arrangement for obtaining reliable anchoring of a threaded implant (3) in dentine, a hole (2) is made in the bone substance. In the side wall (2b) of the hole it is possible to establish an internal threading which can cooperate with an external threading (3d) on the implant. The implant threading is arranged to force the bone substance out in essentially radial directions as a function of the extent to which the implant is screwed into the hole. The threading is arranged to effect greater forcing out of the bone substance at the outer parts of the hole than at the inner parts of the hole. The degree of forcing out is adapted in relation to the softness of the bone in order to achieve the reliable anchoring. Along at least part of the longitudinal direction of the implant, the implant threading can be given a non-circular configuration for the purpose of obtaining improved rotational stability in soft/weak bone. The implant can also have two or more thread spirals/thread entries which shorten the time for screwing the implant into the hole and additionally offer tight threading which permits effective integration with the bone substance during the healing-in process.



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